

Attorney's Docket No.: 17120-002007 / 2401G

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Cantor et al.

Art Unit :

1634

Serial No.: 09/030,571

Examiner:

Betty J. Forman

Filed

: February 24, 1998

Confirmation No.:

7542

Notice of Allowance Date: February 7, 2007

Title

: ARRAYS OF PROBES FOR POSITIONAL SEQUENCING BY

HYBRIDIZATION

MAIL STOP ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

COMMENTS ON EXAMINER'S REASONS FOR ALLOWANCE

Dear Sir:

Responsive to the Notice of Allowability, mailed February 7, 2007, which includes the Examiner's Statement of Reasons for Allowance, entry of the following comments into the file history of the above-captioned application is respectfully requested.

The Examiner's Statement of Reasons for Allowance states

"The claims are drawn to arrays of probes having a first and second strands wherein the second strand is longer than the first strand and the second strand has a random sequence of 3 to 10 bases as the terminal end. The second, longer strand also has an oligonucleotide of 2-20 random nucleotides ligated to the terminal end. The prior art does not teach or suggest the double stranded probes and random sequences as claimed."

Applicant requests that the following comments be made of record in the instant application.

CERTIFICATE OF MAILING BY "EXPRESS MAIL" "Express Mail" Mailing Label Number EV 740120544 US Date of Deposit: May 4, 2007

I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Mail Stop Issue Fee, Commissioner for Flatents, U.S. Patent and Trademark Office, P.O. Box 1450 Alexandria, VA, 22313-1450.

Stephanie Seidman

Applicant: Cantor et al.

Attorney's Docket No.: 17120-002007 / 2401G

Serial No.: 09/030,571

Comments on Examiner's Reasons for Allowance

Filed: February 24, 1998

Claims 74-76, 92-94, 123, 124 and 136 are allowed. Claims 75, 76, 92-94, 123, 124 and 136 ultimately depend from claim 74, which recites:

74. An array of nucleic acid probes, wherein each probe comprises: a single-stranded first nucleic acid of about 15-25 nucleotides in length;

a longer single-stranded second nucleic acid of about 20-30 nucleotides in length, comprising a nucleotide sequence complementary to the first nucleic acid and a random terminal nucleotide sequence of between 3-10 nucleotides in length; and

an oligonucleotide of 4-20 nucleotides in length, comprising a random nucleotide sequence, wherein:

the first nucleic acid is hybridized to the second nucleic acid to form a hybrid having a double-stranded portion and a single-stranded portion comprising the random terminal nucleotide sequence of between 3-10 nucleotides in length; and

the oligonucleotide is ligated to the random nucleotide sequence of the second nucleic acid.

The Examiner states that the claims recite "an oligonucleotide of <u>2-20 random</u> nucleotides" ligated to the terminal end of the longer strand of a nucleic acid molecule. Applicant respectfully submits that this is not correct. As shown above, allowed claim 74 recites "an oligonucleotide of 4-20 nucleotides in length, comprising a random nucleotide sequence." Hence, the statement by the Examiner in the Examiner's Reasons for Allowance that the "second, longer strand" of the probes in the array "has an oligonucleotide of 2-20 random nucleotides ligated to the terminal end" is not an accurate characterization of the claimed subject matter.

Further, Applicant recognizes that in accordance with M.P.E.P. § 1302.14, the Examiner's reasons for allowance need not set forth all of the details why the claims are allowed. In the above-referenced application, Applicant does not concede that the Examiner's stated reasons for allowance are the only reasons for which the claims are allowable. For example, as explained by Applicant on the record, none of the art of record, singly or in any combination thereof discloses, teaches or suggests an array of nucleic acid probes, where each probe includes a single-stranded region and a double-stranded region, where the single-stranded region includes a random sequence of between 3-10 nucleotides in length ligated to an oligonucleotide of 4-20 nucleotides in length. The oligonucleotide includes a random nucleotide sequence of nucleotides. In addition, each of dependent claims 75, 76, 92-94, 123, 124 and 136 is allowable on its own merits.

* * *

Applicant: Cantor et al. Serial No.: 09/030,571

Filed

: February 24, 1998

Attorney's Docket No.: 17120-002007 / 2401G Comments on Examiner's Reasons for Allowance

Entry of these remarks into the file history of the above-captioned application respectfully is requested.

Respectfully submitted,

Stephanie Seidma Reg. No. 33,W9

Stephanie Seidman Fish & Richardson P.C. 12390 El Camino Real San Diego, California 92130 Telephone: (858) 678-5070 Facsimile: (202) 626-7796

Facsimile: (202) 626-7796 email: seidman@fr.com

10732020.doc



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Cantor et al.

Art Unit : 1634

Serial No.: 09/030,571

Examiner: Betty J. Forman

Filed

: February 24, 1998

Conf. No.: 7542

Cust. No. : 20985

Title

: POSITIONAL SEQUENCING BY HYBRIDIZATION

Mail Stop Issue Fee Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

NOTIFICATON OF LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS AND FEE DEFICIENCY PAYMENT PURSUANT TO 37 CFR § 1.28(C)

Dear Sir:

On the basis of good faith and candor, Applicant submits that there are fees that were erroneously paid as a small entity. To rectify these errors, applicant wishes to provide notification of these errors and provide payment of the total fee deficiencies in the form of a check in the amount of \$4060.00. These errors were made in good faith, without fraudulent or deceptive intent. Pursuant to the provisions of 37 CFR §1.28(c), a table is provided which includes an itemization of the deficient fees owed.

Current Fee Amount or a Non-Small Entity: 130.00 450.00	Small Entity Fee Paid \$65.00 \$200.00	Date Small Entity Fee Paid July 27, 1998 July 27, 1998	\$230.00	11 09030571 -225. -COVIDANT
130.00 450.00	\$65.00 \$200.00	July 27, 1998 July 27, 1998	\$65.00 \$250.00	=
450.00	\$200.00	July 27, 1998	\$230.00	=
			\$230.00	=
1,020.00	\$445.00	1 1 2001	900	:8 8
1,020.00	\$445.00	4 11 4 0001 11		
	ι Ψ . 15.55	April 4, 2001 🗡	\$575.00	0000
			55	Ξ
790.00	\$375.00	April 25, 2003	\$415.00	Ŧ.
			dat	TBES
			ent	양양
5120.00	\$55.00	April 25, 2003		11/21/2005 01 FC:2252
		-,		11/2 31 F
51,020.00	\$475.00	November 25, 2003	\$545.00	
	_			ο.
S120.00 &	EEU 5 5 1/1/1	May 27, 2004	\$65.00	- 6
8 11	. 22.8. 0.0			== K;
EVANTI	! <u>S</u> ™	OTIFICATE OF MAILING BY "EY	PDESS MAIL"	090305 -4
	790.00 120.00 1,020.00	\$375.00 \$375.00 \$55.00 \$475.00 \$20.00 \$55.00 \$20.00 \$20.00 \$375.00	\$375.00 April 25, 2003 120.00 \$55.00 April 25, 2003 1,020.00 \$475.00 November 25, 2003 120.00 \$555.00 May 27, 2004	\$375.00 April 25, 2003 \$415.00 \$120.00 \$55.00 April 25, 2003 \$65.00 \$1,020.00 \$475.00 November 25, 2003 \$545.00 \$120.00 \$255.00

08/04/1998 MPEOPLES 00000019 09030571 -65.00 DP FC:205 Adjustment date: 05/07/2007 EEKUBAY1 08/04/1998 MPEOPLES 00000019 09030571 02 FC:216 -200.00 OP Adjustment date: 05/07/2007 EEKUBAY1 04/30/2003 MBLANCO 00000013 09030571 01 FC:2801 -375.00 OP Adjustment date: 05/07/2007 EEKUBAY1 04/30/2003 MBLANCO 00000013 09030571 -55.00 OP 02 FC:2251

CERTIFICATE OF MAILING BY "EXPRESS MAIL" xpress Mail" Mailing Label Number EV 740120544 US te of Deposit May 4, 2007

hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service E: Commissioner for Patents, U.S. Patent and Trademark Office,

*ኢ*አ, 22313-1450. O. Box 1450, Alexandria,

phanie Seidinan

19/2005 ZJUHRR1 00000005 09030571 -510,00 OP

Applicant: Cantor et al. Attorney's Docket No.: 17120-002007

Serial No.: 09/030,571

Filed : February 24, 1998

Page : 2 of 2

Particular Type of Fee	Current Fee Amount for a Non-Small Entity:	Small Entity Fee Paid	Date Small Entity Fee Paid	Deficiency Owed
Request for	\$790.00	\$385.00	August 17, 2004	\$405.00
Continued				
Examination				
3 month	\$1,020.00	\$475.00	August 17, 2004	\$545.00
extension of time				
3 month	\$1,020.00	\$510.00	May 3, 2005	\$510.00
extension of time				
2 month	\$450.00	\$225.00	November 16, 2005	\$225.00
extension of time				
Request for	\$790.00	\$395.00	December 6, 2005	\$395.00
Continued				
Examination				

Total Fees Due:

\$4060.00

 \boxtimes The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,

Stephanie Seidman Reg. No. 33,779

Attorney Docket No. 17120-002007/2401G

Address all correspondence to:

Stephanie L. Seidman Fish & Richardson P.C. 12390 El Camino Real

San Diego, California 92130 Telephone: (858) 678-5070 Facsimile: (202) 626-7796

email: seidman@fr.com

004 09030571 1020.00 0P 120.00 0P 790.00 0P	005 09030571 1020.00 DP 450.00 DP 790.00 BP	006 09030571 1020.00 @P
00000	00000	90000000
EEKUBAY1	EEKUBAY1	EEKUBAY1
05/07/2007 01 FC:1253 02 FC:1251 03 FC:1801	05/07/2007 01 FC:1253 02 FC:1252 03 FC:1801	05/07/2007 01 FC:1253
	/07/2007 EEKUBAY1 00000004 09030571 FC:1253 1020.00 FC:1801 790.00	707/2007 EEKUBAY1 00000004 09030571 FC:1253 FC:1251 FC:12601 790.00 FC:1253 FC:12601 FC:12601 790.00 FC:1253 FC:1253 FC:1253 FC:1253 FC:1253 FC:1250